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# PRICE LIST

## and Condensed CATALOG

NO. 19



**GUARANTEED NURSERY STOCK  
FRUIT AND ORNAMENTAL**

**INCLUDING**

**Roses**

**Fruit and Shade Trees**

**Berries**

**Shrubs, etc.**

**Yakima Valley Nursery  
Company**

**TOPPENISH, - - WASH.**

# SATISFACTION

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When you purchase nursery stock, just as when you purchase anything else, you want absolute satisfaction. We spend time and money in growing nursery stock just a little better than the other fellow can produce, to the end that you may be better satisfied. We are not going to take up your time by going into this matter extensively, the chances are that you have seen for yourself the splendid results given by our trees, shrubs and vines. In every state west of Nebraska, in Alaska and in British Columbia, our stock has proven itself.

Deep, rich soil, abundance of sunshine, an ideal location, isolated from all possible sources of contamination, long growing season, moisture under control, perfect fall ripening weather, and years of nursery experience, all combine to produce Yakima Valley Nursery Company stock, stock which stands alone in excellence.

We do not stop with the production of good stock—we see that it is put into your hands in the best possible condition. Every order is checked and rechecked to prevent mistakes. Packing receives especial attention. Every precaution is used to prevent damage of any sort.

A deputy inspector, appointed by the State of Washington, is stationed at our plant during shipping season, and his certificate of inspection is attached to every shipment.

This booklet is not meant to be a complete catalog, it simply shows you the extensive line we carry, and gives prices. Further information will be gladly furnished, and correspondence, as well as orders, will receive prompt, careful and courteous attention.

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## OUR GUARANTEE

**W**E GUARANTEE everything put out by us to be free from disease and True to Name. Should anything prove untrue to name, we will either replace free, refund the purchase price, or top graft free of charge, at the option of the purchaser.

**Yakima Valley Nursery Co.**

# SPECIALTIES

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Every home owner should have sufficient of each of these splendid fruits for home use. While many of them may not be classed as shippers, yet all are most meritorious and deserve a place in the garden or orchard.

## APPLES

**Red Gravenstein.** The old Gravenstein we all love with a bright red coat making it a splendid marketing variety.

**Delicious.** Too well known and liked to need further description.

**Mottinger.** New. Greenish-yellow; larger than the Yellow Transparent, same season. Mild, sub-acid, splendid cooker.  
For prices see page 5.

## PEARS

**Demorest.** New. Larger, more luscious, a later and better keeper than Bartlett. A native of Puget Sound. Tree a heavy bearer.

For prices see page 5.

## CHERRIES

**Lambert.** Extra large, black, sweet cherry. Best variety grown.

For prices see page 6.

## PLUMS

**Maynard.** Large, deep purple, luscious. Tree very hardy and vigorous.

For prices see page 6.

## PEACHES

**J. H. Hale** A great coming commercial peach. Limited quantity only. Enormously productive. One-half larger and slightly earlier than Elberta. Deep yellow. Perfect freestone but solid as a cling. Tender but not "stringy." Deliciously flavored, colors fully before ripening. Great shipper, keeper and canner. Very hardy.

**Prolific.** Extra large. Late, rich, luscious, yellow, small pit, freestone.

For prices see page 7.

## APRICOTS

**Tilton.** Large, rich, high flavored. Uniform ripening. Very productive. Excellent for drying or canning.

For prices see page 7.

## BLACKBERRIES

**Blowers.** New. Nearly everbearing Large, very productive, hardy.

For prices see page 8.

## RASPBERRIES

**St. Regis.** Everbearing. Red. Vigorous growing. Very hardy. Fine ripe fruit midsummer till fall.

For prices see page 9.

## ROSES

**Frau Karl Druschki.** Very hardy. Magnificent. Extra large. Purest white in existence. Large bush. Abundant bloomer.

For prices see page 17.

## FRUIT TREE PRICES

Due to changing conditions  
prices on fruit trees are  
not included in this list.

Send us a list of varieties  
and quantities desired and we  
will gladly submit a detail-  
ed quotation.

Remember we guarantee satisfaction.

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# Home Beautifying

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The principles of proper planting are not hard to master. The shrubs should be massed into corners and borders, and a selection made differing in height so that all of them can be seen and intermingle in effect, with their bloom coming at different seasons so that they are always interesting. You can easily choose this graduation from our splendid list of shrubs. One often sees an elegant house that lacks the final touch to change it into a "home." Landscape planting is the frame of the picture; the artistic setting; the final touch that changes your house to a home. As a background or a frame to the picture which is to be created, shrubs or trees are indispensable. The idea is to have the surroundings harmonize and give a comfortable and homelike effect. If you need any assistance in producing an artistic effect, we will help you in every way possible.

It will pay in dollars and cents, for a few dollars thus spent will add hundreds of dollars to the value of your place if you should wish to sell. If you were offered two houses in a similar location, one setting on a bare lot with no shade trees and shrubs, the other in an attractive setting, inviting you to come in and enjoy the shade and artistic surroundings, would you not pay more and choose the latter place?

The few suggestions below will help you plant your grounds so as to get the best results.

## **Shrubs Suitable for Screens and Backgrounds.**

Crab, Bechtel's Flowering. 10-15 ft. Pink rose-like flowers. May.

Elder, golden-leaved. 6-8 ft. Clusters of white flowers. July.

Lilac, purple and white. 6-8 ft. Flowers in May-June.

Philadelphus ,Grandiflora. White flowers in June.

Rhus, Cotinus. 8-10 ft. Yellow green flowers in June changing to purple and plumrose.

Tamarix. White or pink florews, April-May. Blue green foliage.

## **A Few of Our Shrubs for Nifty Foundation Plantings.**

Calycanthus, sweet scented shrub. 4-6 ft. Deliciously fragrant flowers through the summer.

Deutzia, Pride of Rochester. White flowers through May.

Hydrangea, Paniculata Grandiflora Hardy Immense cone-shaped heads of flowers in September-October.

Honeysuckle, Tartarian Bush. Pink flowers May-June.

Spirea Vanhouttei, Bridal Wreath. White flowers May-June.

Syringa, Philadelphus Coronarius. White flowers May-June.

Weigelia, Rosea. Pink flowers in June. An old garden favorite.

## **Dwarf Shrubs Suitable for Foundation Planting.**

Barberry, Thunbergii. Orange yellow flowers in May and June. Superb; foliage coloring in fall; vari colored fruits; ornamental.

*Deutzia, Lemonei.* Panicles of extra large white flowers, June.

*Deutzia, Gracilis.* Numerous white flowers in May and June.

*Spirea, Anthony Waterer.* A beautiful shrub with broad heads of deep pink flowers; blooms almost continuously.

*Spirea, Callosa Alba.* Upright in growth with flat clusters of flowers on erect branches.

*Spirea, Thunbergii.* White flowers April May; retains delicate foliage late.

*Wegeilia, Variegata.* Rose flowers in June. Leaves are margined with white.

### **A Few Vines Recommended for Walls, Fences and Pergolas.**

*Ampelopsis, Elglemanni Ivy.* Clings to brick or stone like Boston Ivy but has smaller and denser foliage. Endures 40 below zero weather.

*Clematis, Assorted Varieties.* Among the best climbers.

*Climbing Roses.* Many varieties in a wide range of colors.

*Honeysuckle, Hall's.* White to yellow flowers in August and September; semi-evergreen; very fragrant, one of the best.



## **The Real Test What Customers Think**

"As compared with other nurseries you hold the edge over them for good stock."

"The shipment arrived in good shape and must say that the trees certainly are a good bunch of stock. They beat my expectations."

"The trees I got from you two years ago are making wonderful growth. The Winter Banana had two apples last year and it and the Winterstein are loaded with blossoms this year."

### **AN INTERESTING TALE IN THREE CHAPTERS**

Richard Schnoor, Colfax, Cal., Feb. 11, 1918: "I am well pleased with the trees and you will get an order next year from me for more of them." (Bartlett Pears.)

Richard Schnoor, Colfax, Cal., Jan. 4, 1919: "I can purchase California trees in Oakland for twenty-five cents but prefer your trees as I am well pleased with the trees I got from you people last year."

Richard Schnoor, Colfax, Cal., Mar. 1, 1919: "I have to compliment you on the excellent stock you raise as they are excellent trees and am better satisfied with them than the trees I got last year. I don't see how any person could complain on such trees. It's a pleasure to set out such nice trees and I hope they will do well which I think they will for they surely had splendid roots. Again thanking you for the splendid service which you have given me, I am,—"

# CONDENSED CATALOG AND PRICE LIST

For complete description of Varieties see Illustrated Catalog

OUR PRICES are as low as is consistent with the quality of our stock and the service we render. Remember we pay packing and transportation charges.

## FRUIT DEPARTMENT

### APPLES

General List. (For prices of following varieties see slip opposite front page.) SPECIAL VARIETIES

with prices follow.

#### SUMMER VARIETIES

✓ Early Colton  
✓ Early Harvest  
✓ Golden Sweet  
✓ Red Astrachan

✓ Red June  
✓ Sweet Bough  
✓ Tetofsky  
✓ Yel. Transparent

#### AUTUMN VARIETIES

✓ Alexander  
✓ Duch. Oldenberg  
✓ Fall Pippin  
✓ Fameuse (Snow)  
✓ Gravenstein  
✓ Jeffries

✓ King  
✓ Maiden Blush  
✓ Rambo  
✓ Red Beitigheimer  
✓ Twenty-Oz.

#### WINTER VARIETIES

✓ Ark. Beauty  
✓ Ark. Black  
✓ Baldwin  
✓ Bellfleur Yellow  
✓ Ben Davis  
✓ Bismarck  
✓ Blk. Ben Davis (Gano)  
✓ Blk. Twig (Paragon)  
✓ Br. Columbia  
✓ Coos River Beauty  
✓ Delicious  
✓ Delaware Red  
✓ Gano (Blk. Ben)  
✓ Golden Russett  
✓ Grimes Golden  
✓ Jonathan  
✓ King David  
✓ McIntosh  
✓ Newton Pippin  
✓ Northern Spy  
✓ N. W. Greening

✓ Ore. Red Winter  
✓ Ortley  
✓ Peter  
✓ Red Rome Beauty  
✓ R. I. Greening  
✓ Rome Beauty  
✓ Spitzenberg  
✓ Spokane Beauty  
✓ Talman's Sweet  
✓ Vanderpool Red  
✓ Wagener  
✓ Wealthy  
✓ Winterstein  
✓ W. W. Pearmain  
✓ W. Bellfleur (Ortley)  
✓ Winesap  
✓ Winesap, Stayman's  
✓ Winter Banana  
✓ Wolf River  
✓ York Imperial

SELL NO STOCK NOT LISTED HEREIN  
WE PAY THE FREIGHT

**New Apples and Those of Special Merit**

	Each	Per Doz.	Per 25	Per 50	Per 100
Red Gravenstein } Orengo } Mottinger } Rainier }	1.00	10.00	20.00	35.00	65.00

**CRAB APPLES**

(For prices see slip opposite front page.)

Excelsior	✓ Transcendent
Florence	✓ Whitney's
Gen. Grant	✓ Yellow Siberian
Hyslop	✓ Red Siberian

**PEARS**

General List. (For prices of following varieties see slip opposite front page.) **SPECIAL VARIETIES** with prices follow.

**SUMMER VARIETIES**

Bartlett	✓ Koonce
Clapp's Favorite	

**AUTUMN VARIETIES**

B. Bosc.	✓ Flemish Beauty
B. Clairgeau	✓ Idaho
B. de Anjou	✓ Kieffer's
Doy. Comice	✓ Seckel
Duch. d'Angouleme	✓ Worden Seckel

**WINTER VARIETIES**

Winter Nellis (See Also Specialties)  
**New Pears and Those of Special Merit**

	Each	Per Doz.	Per 25	Per 50	Per 100
Winter Bartlett	1.00	10.00	20.00	35.00	65.00
Demorest, new, luscious, larger, later and better keeper than Bartlett.					

**CHERRIES**

General List. (For prices of following varieties see slip opposite front page.)

Baldwin	✓ Lambert
Bing	✓ *Late Duke
Blk. Republican	✓ *May Duke
Blk. Tartarian	✓ *Montmorency Large
Centennial	✓ *Olivet
Deacon	✓ *Osthieime (very hardy)
*Dyehouse	✓ Royal Anne
Early Chapman	✓ Waterhouse
*Ey. Richmond (Kentish)	✓ Windsor
*English Morello	✓ *Wragg
Gov. Wood	

\*Sour Varieties

The Waterhouse is now recognized as the best pollenizer for the Bing, Lambert and Royal Ann. Plant one Waterhouse to about every seven trees of the other varieties.

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## PLUMS

General List. (For prices of following varieties see slip opposite front page.) SPECIAL VARIETIES with prices follow.

✓ Abundance  
✓ \*Bartlett  
✓ Bradshaw  
✓ \*Burbank  
✓ \*Climax  
✓ Coes' G. Drop  
✓ Damson  
✓ Diamond  
✓ Forest Rose  
✓ Green Gage  
✓ \*Kelsey's

✓ Lombard  
✓ Moore's Arctic  
✓ Peach  
✓ Pottawattamie  
✓ Red June  
✓ Reine Claude  
✓ \*Satsuma  
✓ \*Weaver  
✓ \*Wickson  
✓ Wild Goose  
✓ Yellow Egg

### New Plums and Those of Special Merit

	Each	Per Doz.	Per 25	Per 50	Per 100
*Maynard	1.00	10.00	20.00	39.00	75.00

\*Japanese plums together with the hybrids and crosses produced by Luther Burbank are (\*) starred.

## PRUNES

General List. (For prices of following varieties see slip opposite front page.)

✓ French (Petite)  
✓ German  
✓ Golden  
✓ Hungarian  
✓ Imperial

✓ Italian  
✓ Robe de Sargent  
✓ Standard  
✓ Sugar

## PEACHES

General List. (For prices of following varieties see slip opposite front page.) SPECIAL VARIETIES with prices follow.

(F) Freestone. (SC) Semi-Cling (C) Cling.

✓ Admiral Dewey (F)	✓ Foster (F)
✓ Alexander (C)	✓ Hale's Early (SC)
✓ Bokhara (very hardy) (F)	✓ Heath's Cling (C)
✓ Brigg's Red May (F)	✓ Indian Blood (C)
✓ Carman (F)	✓ Lemon Cling (C)
✓ Champion (F)	✓ Lovell (F)
✓ Crawford's Early (F)	✓ Muir (Malta) (F)
✓ Crawford's Late (F)	✓ Orange Cling (C)
✓ Crosby (F)	✓ Salway (F)
✓ Early Charlotte (F)	✓ Phillip's Cling (C)
✓ Elberta (F)	✓ Slappy (F)
✓ Everbearing (F)	✓ Triumph (F)
✓ Fitzgerald (F)	✓ Tuscan's Cling (C)

SELL NO STOCK NOT LISTED HEREIN  
WE PAY THE FREIGHT

## New Peaches and Those of Special Merit

	Each	Per Doz.	Per 25	Per 50	Per 100
J. H. Hale (F) extra good	1.00	10.00	19.00	35.00	65.00
Perfection (F) very hardy					
Prolific (F)					

## APRICOTS

General List. (For prices of following varieties see slip opposite front page.) SPECIAL VARIETIES with prices follow.

Alexander  
Alexis  
Blenheim

J. L. Budd  
Moorpark (Wenatchee)  
Royal  
Tilton

## NECTARINES (For prices see slip opposite front page.)

Boston  
Lord Napier

New White

## QUINCE

(For prices see slip opposite front page.)

Champion  
Orange (Apple)

Pineapple

## GRAPES

General List (special varieties and their prices follow)

Each	Doz.	25	50	100
	Per	Per	Per	Per
.50	5.00	8.00	14.00	25.00

### AMERICAN VARIETIES (Hardy)

Brighton (red)  
Concord (blk)  
Delaware (red)  
Moore's Diamond (white)

Moore's Early (blk)  
Niagra (white)  
Salem (red)  
Worden (Blk)

### EUROPEAN VARIETIES (Tender)

Black Hamburg (blk)  
Flame Tokay (red)  
Malaga (white)

Muscat (white)  
Thompson Seedless (white)

## New Grapes and Those of Special Merit

	Each	Per Doz.	Per 25	Per 50	Per 100
Campbell's Ely. (blk)	.60	6.00	11.00	20.00	35.00
Green Mountain (white)					
Ely. Ohio (white)					

## BLACKBERRIES

	Each	Per Doz.	Per 25	Per 50	Per 100
.30	3.00	5.00	8.00	15.00	
Blowers (nearly everbearing)	Kittatinny	Lawton	Mammoth	Mercereau (very hardy)	Rathbun
Ely. Harvest					
Erie					
Evergreen					
Himalaya Giant					

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**HYBRID BERRIES**

	Each	Per Doz.	Per 25	Per 50	Per 100
Loganberries, Tips only					
Phenomenals, Tips only	.50	5.00	8.00	14.00	25.00

We have no transplant nor can we secure any this year, hence **tips only** will be sold. All orders for above must be marked "tips."

**CURRANTS**

	Each	Per Doz.	Per 25	Per 50	Per 100
Black Champion	.50	5.00	8.00	14.00	25.00
Black Naples					
Cherry (red)					
Fay's Prolific (red)					
Lee's Prolific (blk)					
White Grape (white)					
	Each	Per Doz.	Per 25	Per 50	Per 100
Perfection (red, very best)	.60	6.00	10.00	17.00	30.00

**DEWBERRIES**

Austin's	.35	3.50	6.00	11.00	20.00
Lucretia					

**STRAWBERRIES**

**Spring Delivery Only. Cash With Order.**

Spring delivery only will be made. Cash in full must accompany every Strawberry order regardless of other stock ordered. This will greatly eliminate delay and expense in packing, shipping and collecting our thousands of strawberry orders under the former C. O. D. plan and enable us to render better and prompt service.

**Write Strawberry Orders on Separate Blanks as plants are sent direct to customers.**

**Not Less than 25 of a Variety Sold.**

	Per 25	Per 50	Per 100	Per 500	Per 1000
Hood River (Clark seedling)	1.00	1.50	2.50	8.00	15.00
Senator Dunlap	1.00	1.50	2.50	8.00	15.00
Admiral Dewey (nearly ever-bearing)	1.25	1.75	3.00	12.00	20.00
Everbearing, Superb and Progressive	1.50	2.50	4.00	16.00	30.00

**RASPBERRIES**

	Each	Per Doz.	Per 25	Per 50	Per 100
Columbian Purple	.30	3.00	5.00	8.00	15.00
Cumberland (blk)					
Cuthbert (red)					
Golden Queen (yellow)					
Gregg (blk)					
St. Regis Everb'g (red)	.40	4.00	7.00	12.00	20.00
Herbert (red)					
Loudon (red)					
Marlboro (red)					
Miller (red)					
Munger (blk)					

**GOOSEBERRIES**

	Each	Per Doz.	Per 25	Per 50	Per 100
Downing	.50	5.00	8.00	14.00	25.00
Oregon Champion					
Josslyn (Red Jacket)					
Pearl					

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**ASPARAGUS**

	Per Doz.	Per 25	Per 50	Per 100	Per 500	Per 1000
Col. Mam. White Conover's Colossal	1.00	1.75	2.50	4.00	16.00	25.00
Palmetto						

**HORSERADISH**

	Each	Per Doz.	Per 25	Per 50	Per 100
	.25	2.50	4.00	7.00	12.50

**RHUBARB**

	Each	Per Doz.	Per 25	Per 50	Per 100
Victoria Mammoth	.40	4.00	7.50	14.00	25.00
Crimson Winter Dodge's Prolific	.40	5.00	9.00	18.00	35.00

**ALMONDS**

(See prices opposite inside front cover)

Drake's Seedling	Nonpareil
I. X. L.	Peerless
Ne Plus Ultra	Texas Prolific

	Each	Per Doz.			
Butternuts, 4-6 ft.	1.50	15.00			
Chestnuts, 4-6 ft. Amer- ican Sweet	1.50	15.00			
Filberts, 2-3 ft. Barcelona DuChilly	1.25	12.50	25.00	45.00	75.00

**WALNUTS**

English (Persian or French) and Japanese

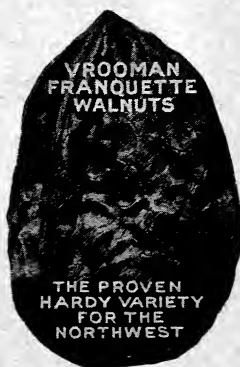
**VROOMAN FRANQUETTE**

(See Page 3.)

walnut is propagated from the celebrated Vrooman Franquette orchard at Santa Rose, California. It combines the three prime essentials for the west. A hardy tree, late blooming and self-pollenizing.

The "second generation" trees are grown from nuts produced on the grafted Vrooman Franquette orchard which, not being cross-pollenized, reproduce true to type. We are growing and selling the Vrooman Franquette under

license from the Oregon Nursery Company, which holds an exclusive propagating contract with the owners of the Vrooman orchard. Write for special walnut booklet.



**SELL NO STOCK NOT LISTED HEREIN  
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	Each	Per Doz.	Per 25	Per 50	Per 100
<b>Walnuts, 2nd generation,</b> Vrooman strain Fran- quette, 3-4 ft. high	1.50	18.00	37.50	75.00	150.00
<b>Same, 4-6 ft. high</b>	2.00	24.00	50.00	100.00	200.00
<b>Walnuts, Grafted Vroo-</b> man strain Fran- quette, 3-4 ft. high	2.50	25.00	50.00	100.00	200.00
<b>Same, 4-6 ft. high</b>	3.00	30.00	60.00	120.00	225.00
<b>Walnut, 4 to 6 ft.—</b> <b>American Black</b> <b>California Black</b>	1.50	15.00	28.00	50.00	90.00
<b>Sieboldi, Japan</b>					

## SHADE AND ORNAMENTAL TREES

(All trees 6 to 8 ft. high unless otherwise specified)

Ask for prices on larger sizes

	Each	Per Doz.	Per 25	Per 50	Per 100
<b>Ash, Am. White</b> .....	1.50	15.00	27.50	53.00	100.00
<b>Balm of Gilead</b> .....	1.50	15.00	25.00	40.00	70.00
<b>Beech, Riversi Purple</b> .....	3.00	30.00			
<b>Birch, Common White</b> ..	1.50	15.00	27.50	53.00	100.00
<b>Box Elder</b> .....	1.00	10.00	18.00	35.00	60.00
<b>Catalpa, Bungei, (umbrel-</b> la type) .....	3.00	30.00			
<b>Catalpa, Speciosa</b> .....	1.50	15.00	27.50	53.00	100.00
<b>Crab, Bechtel's Double</b> flg., 4-6 ft.....	1.50	15.00			
<b>Elm, Amer. and Eng.</b> ....	1.50	15.00	27.50	53.00	100.00
<b>Cork Bark</b> .....	2.00	20.00	35.00	65.00	120.00
<b>Fringe, white and purple</b> 4 to 6 ft. ....	1.50	15.00			
<b>Horse Chestnut, white</b> 3 to 4 ft. ....	1.50	15.00			
<b>Red, 3 to 4 ft.</b> .....	3.00	30.00			
<b>Linden,</b> American (Basswood)	1.50	15.00	27.50	53.00	100.00
<b>European</b> .....					
<b>Locust, Black, Honey</b> .....	1.00	10.00	18.00	35.00	60.00
<b>Maple, Norway</b> .....	1.50	15.00	27.50	53.00	100.00
<b>Red or Scarlet</b> .....	2.00	20.00			
<b>Silver or Soft</b> .....	1.00	10.00	18.00	35.00	60.00
<b>Sugar or Rock</b> .....	2.00	20.00			
<b>Sycamore</b> .....	1.50	15.00			
<b>Mountain Ash</b> .....	1.50	15.00	27.50	53.00	100.00
<b>Mulberry, Russian, 4-6</b> ....	1.00	10.00			
<b>Oak, Pin &amp; Red, 4-6</b> .....	3.00	30.00			
<b>Pin &amp; Red, 6-8</b> .....	4.00	40.00			
<b>Poplar, Canadian (very</b> hardy) .....	1.25	12.50	23.00	45.00	80.00

**SELL NO STOCK NOT LISTED HEREIN  
WE PAY THE FREIGHT**

Lombardy .....	}	1.00	10.00	18.00	35.00	60.00
Carolina .....						
Silver Leaf .....						
Prunus Pissardi, 4-6 ft....		1.25	12.50			
Prunus Trilobi, 4-6 ft.....		1.50	15.00			
Sycamore,						
Amer. (Buttonwood) .		1.25	12.50			
European (Oriental						
Plane) .....		1.50	15.00			
Thorn, Double White .....		1.50	15.00			
Paul's Double Red ..		1.50	15.00			
Willow, Golden .....		1.00	10.00			

## WEeping DECIDUOUS TREES

	Each	Per Doz.	Per 25	Per 50	Per 100
Birch, Cut Leaf .....	2.50	25.00			
Elm, Camperdown .....	3.00	30.00			
Willow, Wisconsin and					
Babylonica .....	1.75	17.50			

## WINDBREAKS—Unbranched Whips.

(See Inside Back Cover)

Box Elder, Black Locust, Carolina Poplar, Lombardy Poplar

	Per 25	Per 50	Per 100	Per 500	Per 1000
3 to 4 ft. ....	5.00	9.00	17.50	85.00	160.00
4 to 6 ft. ....	6.00	11.00	20.00	95.00	180.00
Canadian Poplar, (extremely hardy)					
3 to 4 ft. ....	6.00	11.00	20.00	95.00	180.00
4 to 6 ft. ....	7.00	12.00	22.50	105.00	200.00

## FLOWERING SHRUBS

(All 3 to 4 ft. high unless otherwise specified)

	Each	Doz.
Althea, (Rose of Sharon) Red, White, Pink		
and Purple .....	1.25	12.50
Variegated Leaf .....	1.50	15.00
Barberry, Thunbergii, Purple leaf .....	.75	7.50
Calycanthus, (sweet scented shrub) 2 ft. ....	1.25	12.50
Deutzia, Gracillis (white) 2 ft. ....	1.00	10.00
Lemoine (white) .....	1.00	10.00
Pride of Rochester (white) .....	1.00	10.00
Forsythia, Suspensa .....	1.00	10.00
Honeysuckle, Upright, Red, White Tartarian ....	1.00	10.00
Hydrangea, Paniculata Grandiflora (white) .....	1.00	10.00
Paniculata Grand. (white) tree shaped .....	1.25	12.50
Arborescens Grand. (white) (Hills of Snow)	1.25	12.50
Lilac, Common Purple, Common White .....	1.00	10.00
Persian .....	1.00	10.00

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Belle de Nancy (pink) .....	}	1.25	12.50
Frau Damman (white) .....			
Madam Ludwig Spaeth (red) .....			
President Grevy (blue) .....			
Japanica, tree Lilac (white) .....		1.50	15.00
Quince, Japan Flowering .....		1.00	10.00
Snowball, Common & Japan (white) .....		1.00	10.00
Tree shaped (white) .....		1.25	12.50
Opulus (Highbush Cranberry) bright red berries .....		1.00	10.00
Spirea, Aurea (Golden) 2 ft. ....		1.00	10.00
Anthony Waterer (pink) 12-18 in. ....		.75	7.50
Collosa Alba (white) 12-18 in. ....		.75	7.50
Prunifolia, (Bridal Wreath) white .....	}	1.00	10.00
Thunbergeii, 2-3 ft. (white) .....			
VanHouttei (white) .....			
Syringa, Garland (Mock Orange) white.....			
Golden Leaved (white flowers) .....	}	1.00	10.00
Lemoine, (yellowish white) .....			
Tamarix, African .....			
Wegelia, Rose colored .....	}		
Variegated .....			
Eva Rathke (red) .....			

## HEDGE PLANTS

	Per 25	Per 50	Per 100	Per 500	Per 1000
Privet, Common, California					
12 to 18 in .....	4.00	6.00	12.00	55.00	100.00
18 to 24 in. ....	5.00	8.00	14.00	65.00	120.00
Amour River North (exceedingly hardy)					
12 to 18 in .....	5.00	8.00	14.00	65.00	120.00
18 to 24 in .....	6.00	9.00	15.00	70.00	130.00

## EVERGREENS

(18 to 24 in. balled)

	Each	Doz.
Juniper, Irish .....	3.00	30.00
Spruce, Colorado Blue .....	4.00	40.00
Norway .....	4.00	40.00
Koster's Blue (Grafted) .....	5.00	50.00

## VINES AND CREEPERS

Ampelopsis, Engelmanni (clings to brick or stone—very hardy) .....	1.00	10.00
Veitchii (Japan or Boston Ivy. Not hardy east of Cascades) .....	1.00	10.00
Quinquifolia (Virginia Creeper) .....	.75	7.50
Clematis, Paniculata (small white flowers).....	.75	7.50

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Coccinea (bell shaped red flowers) .....		
Henryii (large white flowers) .....		
Jackmanni (large violet flowers) .....	1.00	10.00
Madam Ed. Andre (large red flowers) .....		
Ramona, (large blue flowers) .....		
Honeysuckle, Chinese Twining (red and white flowers) .....	.75	7.50
Hall's Japan (yellowish white) .....		
Monthly Fragrant (red and yellow flowers) .....		
Virginia Creeper (Ampelopsis Quinquefolia).....	.75	7.50
Wistaria, Purple, White .....	1.00	10.00

## MISCELLANEOUS BEDDING PLANTS

# DAHLIAS

(Spring Planting Only)

We offer the following colors: pink, red, white and yellow, in the following classes: **Cactus Dahlias**, long narrow, twisted, pointed petals. **Decorative Dahlias**, large open faced, flat petals, free blooming. **Show Dahlias**, small very formal and perfect in shape.

	Each	Doz.
Price of any of above colors in classes mentioned .....	.35	3.50
Be sure to specify class and color desired.		

# PEONIES

(Fall or Spring)

The gorgeous, dazzling peony is being recognized more and more as one flower which should be used in the planting scheme more than it has in the past. Being absolutely hardy, flowering in greater profusion each succeeding year, and being pest and disease proof, it deserves to be widely planted.

You will observe the varieties listed below are the choicest of all the numerous peonies in existence and no mistake will be made in planting liberally. Their bloom coming at the same time as Memorial Day will enable one to sell at a good price all surplus blossoms.

	Each	Doz.
<b>La Perle</b> —Very large compact, globular flowers color white overlaid with lilac with blush center; central petals noticeably flecked with carmine, sometimes splashed; tall upright grower; free bloomer in cluster; extra fine .....	.75	7.50
<b>Floral Treasure</b> —Large full flowers of delicate pink. A great favorite in the Chicago cut-flower markets .....	.75	7.50
<b>Gigantea</b> —Enormous flowers eight to nine inches across; of an exquisite shade of clear pink. One of the very best. ....	1.50	15.00
<b>Felix Crousse</b> —Rich, even, brilliant, dazzling ruby red. The most valuable for all general purposes. Especially fine for cut flowers. ....	1.00	10.00
<b>L'Ecletante</b> —Another excellent all-purpose red. Upright grower, very fine. ....	.75	7.50

**SELL NO STOCK NOT LISTED HEREIN  
WE PAY THE FREIGHT**

<b>Festiva Maxima</b> —Finest white peony in existence. Vary large blooms coming in usually for Memorial Day. Unusually good....	1.00	10.00
<b>Marie Lemoine</b> —Ivory white. Gigantic blooms coming just after Festiva Maxima .....	.75	7.50
<b>Duke of Wellington</b> —Ideal cut flower variety; sulphur white .....	.75	7.50

**SHASTA DAISIES**

Each      Doz.

.35      3.50

**IRIS**—Common Purple

.35      3.50

**DISTANCES FOR PLANTING**

Standard Apples .....	30 feet apart each way
Standard Pears and strong growing cherries .....	20 feet apart each way
uke and Morello Cherries.....	18 feet apart each way
Standard Plums, Peaches, Apricots, Nectarines .....	16 to 18 feet apart each way
Quinces .....	10 to 12 feet apart each way
Grapes .....	rows 10 to 16 feet apart; 7 to 16 feet in rows
Currants and Gooseberries .....	4 feet apart
Raspberries and Blackberries .....	3 to 4 by 5 to 7 feet
Strawberries for field culture .....	1 by 3 to 3½ feet
Strawberries for garden culture .....	1 to 2 feet apart
Filberts .....	12 feet apart each way
Walnuts .....	40 feet apart each way

**NUMBER OF SHRUBS OR PLANTS FOR AN ACRE**

No. Feet Apart	No. of Plants	No. Feet Apart	No. of Plants
1 by 1	43,560	15 by 15	193
2 by 2	10,890	17 by 17	170
3 by 3	4,840	71 by 71	150
4 by 4	2,722	18 by 18	134
5 by 5	1,742	19 by 19	120
6 by 6	1,210	20 by 20	108
7 by 7	881	25 by 25	69
8 by 8	680	30 by 30	48
9 by 9	537	33 by 33	40
10 by 10	435	40 by 40	27
11 by 11	360	50 by 50	17
12 by 12	302	60 by 60	12
13 by 13	257	66 by 66	10
14 by 14	222		

**SELL NO STOCK NOT LISTED HEREIN  
WE PAY THE FREIGHT**

# CHOICE TWO-YEAR FIELD-GROWN ROSES

## NOT HOT-HOUSE GROWN

Do not confuse our choice stock with the small tender hot-house plants offered by mail-order houses at cut prices. Such plants always prove a disappointment, for if they do live one must wait two years before they bloom.

## KEY TO ABBREVIATIONS

Cibg.—Climbing.	Poly.—Polyantha
H. P.—Hybrid Perpetual	Pern.—Pernetiana
H. T.—Hybrid Teas	T.—Tea
Noi. or N.—Noisette.	W. or Wich.—Wichuriana

## BLOOM THE FIRST SEASON

Our stock is hardy, field grown two-year stock, well rooted and will bloom the First Summer. It always pays to get the best.

Remember that our prices cover charges prepaid to destination. We pack carefully and no matter where you are situated the cost is no greater than if you purchased at our door.

## PINK

**PRICES**—All varieties not specially priced are \$1.00 each; \$10.00 per dozen.

Betty, H. T., Coppery pink, shaded old gold.

Hermosa, Bengal. Pink.

Juliet, H. B. Old gold changing to deep pink. \$1.25 each.

Johnkeer J. L. Mock, H. T. Bright red, salmon pink.

Killarney, H. T. Beautiful pink.

La France, H. T. Delicate silvery rose pink.

Mrs. John Laing, H. P. Delicate pink.

Mad. Cécil Brunner, Poly. Salmon pink.

M.C. Testout, H. T. Clear, satiny pink.

Magna Charta, H. P. Bright rose pink.

Maman Cochet, T. Silvery pink.

Paul Neyron, H. P. Deep rose or pink.

Pink Moss.

## RED

**PRICES**—All varieties not specially priced are \$1.00 each; \$10.00 per dozen.

American Beauty, H. P. Shaded red. \$1.25 each.

**SELL NO STOCK NOT LISTED HEREIN  
WE PAY THE FREIGHT**

## ROSES--*Continued*

Baby Rambler, Poly. Red.  
 Edw. Mawley, H. T. Dark crimson. \$1.25 each; \$12.50 per dozen.  
 Etoile de France, H. T. Red-crimson velvet.  
 Fisher Holmes, H. P. Deep crimson.  
 Gen. Jacqueminot, H. P. Brilliant velvety crimson.  
 Gen. McArthur, H. T. Dark velvety scarlet.  
 Geo. Dickson, H. T. Velvety black. \$1.25 each; \$12.50 per doz.  
 Gruss an Teplitz, H. T. Fiery scarlet crimson.  
 Hugh Dickson, H. P. Brilliant crimson.  
 J. B. Clarke, H. T., Deep scarlet, shaded black crimson.  
 Lyon, H. T. Crab red, center coral red.  
 Marshal P. Wilder, H. P. Rosy red.  
 Papa Gontier, T. Crimson.  
 Prince Camille de Rohan, H. P. Dark velvety crimson.  
 Red Moss.  
 Richmond, H. T. Pure blood red.  
 Ulrich Brunner, H. P. Rich cherry red.

### WHITE

PRICES—All varieties not specially priced are \$1.00 each;  
 \$10.00 per dozen.

Bessie Brown, H. T. Creamy white.  
 Florence Pemberton, H. T. Creamy white.  
 Frau Karl Druschki, H. P. Pure White.  
 K. A. Victoria, H. T., Creamy white.  
 Killarney White, H. T. Pure White.  
 Margaret Dickson, H. P. White.  
 Maman Cochet White, T. White.  
 White La France, H. T. Pure white, shaded pink.  
 White Moss.

### YELLOW

PRICES—All varieties not specially priced are \$1.00 each;  
 \$10.00 per dozen.

Glory Lyonnaise, H. P. Pale lemon yellow.  
 Harry Kirk, H. T. Orange apricot.  
 Lady Hillingdon, H. T. Deep golden yellow.  
 Lady Roberts, T. Apricot yellow.  
 Mrs. Aaron Ward, H. T. Coppery yellow.  
 Perle d'Or. Poly. Nankeen yellow, orange center.  
 Safrano, T. Bright apricot yellow.  
 Soleil d'Or. Austs. Briar. Orange yellow.  
 Sou. du P. Notting. Apricot yellow.  
 Sunset T. Golden Amber.  
 Sunburst, H. T. Cadmium yellow; \$1.25 each.

### CLIMBERS

PRICES—All varieties not specially priced are \$1.00 each;  
 \$10.00 per dozen.

Blue Rose, C. W. Violet blue shading to pink.  
 Clbg. Am. Beauty, H. P. Deep pink or light red.  
 Clbg. K. A. Victoria, C. H. T. Pure white.  
 Clbg. M. C. Testout, C. H. T. Clear pink.  
 Clbg. Meteor, C. H. T. Crimson.  
 Crimson Rambler, C. P. Crimson.  
 Dorothy Perkins, C. W. Shell pink .

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**SELL NO STOCK NOT LISTED HEREIN  
 WE PAY THE FREIGHT**

## ROSES--*Continued*

**Empress of China, C. C.** Bright pink.  
**Flower of Fairfield, C. P.** Crimson.  
**Glorie de Dijon, C. T.** Buff with orange center.  
**Mad. Alfred Carriere, C. H. N.** Rich creamy white.  
**Marechal Neil, C. N.** Rich, golden yellow.  
**Rubin, C. H. P.** Deep ruby red.  
**Shower of Gold, Wich.** Rich yellow.  
**Tausendschon, C. P.** Pink or rosy carmine.  
**Wm. A. Richardson, C. N.** Deep orange yellow.  
**White Rambler, C. P.** White.  
**White Dorothy Perkins, C. W.** White.  
**Yellow Rambler, C. P.** Yellow.

### NEW ROSES

**Hoosier Beauty, H. T.**—Glowing scarlet, darker shadings, texture like velvet. Long, pointed bud, on extra long stem, making it one of best cut flower roses in existence. \$1.50 each.  
**Ophelia, H. T.**—Salmon-flesh, shaded with rose, large and perfectly shaped. Free bloomer. Very popular. \$1.25 each.  
**Lillian Moore, H. T.**—Deep pure Indian-yellow with long buds, very free bloomer. Took the \$1000.00 trophy at the Panama-Pacific Exposition, San Francisco. Be sure to get one. \$2.50 each.  
**Los Angeles, H. T.**—One of the finest roses ever introduced. Very vigorous grower, free bloomer on long stems. Luminous flame-pink, toned with coral and shaded gold. Very fragrant. Exceedingly good. \$2.50 each.

## THE ROSE

### The Queen of Flowers.

No shrub or flower responds so readily to a little care and attention, and returns such an abundance of beauty and fragrance through so long a period, as does the rose.

### PRUNING.

Before planting cut back the top well and trim the roots back about one-third. Don't be afraid of cutting back the top too much, just so you leave a few good shoots with eyes, for if the top is large, the root can not support it at once.

Cut away clean to the base all dead or unripe shoots. Always cut to an "eye" pointing away from the center of the plant, when cutting back or shortening. Cut away some of the older shoots of climbing roses each year after plants have flowered in the summer.

Where a more perfect bud or flower is desired, pinch off all other buds from the shoot, leaving all the strength to go into this one bud.

We would suggest thinning out some in October and November. Then in Coast sections prune thoroughly in January and February. East of the Cascades put this off until March or April depending on the season.

Mulch well in winter to prevent alternate freezing and thawing, and in summer to prevent drying out.

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**SELL NO STOCK NOT LISTED HEREIN**  
**WE PAY THE FREIGHT**

# SPRAYING

## BULLETIN No. 3, WASHINGTON EXPERIMENT STATION PULLMAN—

R. Kent Beatie, Botanist; A. L. Melander, Entomologist

There is no spraying that will cure everything. Use the ones that fit your case. For information about insect pests, plant diseases and spraying, write to the Botanist or Entomologist of the Experiment Station in your state.

### HOW TO SPRAY

Spray thoroughly. Direct your attention to the hardest places to reach. Cover every surface. Wet behind the buds. Reach the bottom of every crack. Fill the lower calyx cup. Do not try to economize on spray. For all orchard spraying use a high-pressure pump (at least 200 pounds). Use bordeaux nozzles only. Use an eight foot spray rod. Have a crook to set the nozzles at an angle of 45 degrees, Spray from a tower if trees are beyond your reach.

### SULPHUR-LIME

Sulphur .....	1 pound
Fresh stone lime .....	½ pound
Water .....	½ gallon

Slake the lime in the cooker. Add the sulphur and the water. Boil briskly till the sulphur is dissolved (about 45 minutes), stirring continuously and keeping the cooker covered. As it boils down keep adding water. When finished let settle. Use only the clear liquid, which may be stored if kept from the air. Prepared in this way, sulphur-lime should have a hydrometer reading of about 26 degrees, a little weaker than the factory-made product.

### CARBOLATED LIME

Lime .....	10 pounds
Water .....	50 gallons
Carbolic acid .....	1 pint or more

Slake the lime with a little water, add rest of the water and the carbolic acid.

### ARSENATE OF LEAD

Arsenate of lead (poison).....	1 pound
Water .....	50 gallons

For newly hatched insects it is not necessary to use it stronger. Mix well first with a small amount of water. Powdered arsenate of lead is about twice as strong as the paste. Do not use arsenate that settles quickly.

### BORDEAUX

Bluestone .....	6 pounds
Good lime .....	4 pounds
Water .....	50 gallons

Dissolve the bluestone by suspending it in a sack in 25 gallons of water in a barrel. Slake the lime in another vessel, adding a little water slowly, and dilute to 25 gallons. Mix the two thoroughly. Even the best bordeaux may scorch in rainy weather.

For double strength bordeaux use twice as much bluestone and lime.

### KEROSENE EMULSION

Kerosene .....	2 gallons
Whale-oil soap .....	$\frac{1}{2}$ pound
Water .....	1 gallon

Dissolve the soap in the water by boiling, and add the suds boiling hot to the kerosene, away from the fire. The mixture is then to be agitated violently, preferably by pumping it back on itself with a force pump. After four or five minutes the mixture suddenly becomes creamy in consistence. If well made, the cream will stand for a long time without free oil rising to the surface. Unless otherwise stated, use 1 gallon of the emulsion to 12 gallons of water in spraying. One quart soft soap or 1 pound laundry soap may be used instead of the whale-oil soap.



# Berries as Money Makers

Too many farmers and orchardists neglect the more humble but highly profitable small fruits like Blackberries, Raspberries, etc. Those familiar with the wonderfully successful berry districts such as Puyallup, the Willamette Valley, the Kennewick and other successful Columbia River districts, need not be reminded of the profits to be made from the berries. There are scores of other localities that are just as good. You can get a start in the berry business at a small cost, but at any rate you should plant a few for home use. **PLANT NOW** and increase our country's food supply.

## BLACKBERRIES

One of the best fruits for canning, preserving and making jellies. Its rich, spicy flavor either raw or cooked makes it a general favorite. Easily grown, begin bearing the second year and produces enormous quantities of fruit each year.

A Cornell bulletin gives a summary of a survey made on thirty farms which had an average of 1.7 acres of blackberries per farm with an average income per acre of \$231.13. Out here, many growers get three and four times that amount.

## RASPBERRIES

One of the most satisfactory small fruits grown. The fresh berries are always in demand and you will never want for a good market in your home town for what you grow.

## CURRENTS

Who doesn't like currant jelly? There is always a great demand for currants. You can't go wrong in planting all you need for home use and some extra for the market.

## GOOSEBERRIES

A very profitable fruit not appreciated by the buying public because it is often picked too green. It returns from \$300.00 to \$500.00 per acre under favorable conditions.

## STRAWBERRIES

"Doubtless the Lord could have made a better berry, but doubtless he never did," said an ancient philosopher when speaking of strawberries. With that we all agree. The large, luscious, red strawberry is one fruit we can't get along without. It is wonderfully productive and is a money maker whether planted in small or large lots. Returns of from \$300.00 to \$600.00 per acre are general while returns from \$600.00 to \$1000.00 are not uncommon.

Trees  
that  
Please

We  
Grow  
Them



# Extra Good Shade Trees

## NORWAY MAPLE.

One of the many good trees brought to this country from Europe, and which have added an enormous value to the street and park plantings of America.

It is doubtful if any tree equals the Norway Maple in avenue plantings. In fact, a group of landscape architects recently agreed that it is the best tree because of its resistance to dust and smoke, its freedom from insects and disease, and its ability to withstand the trying conditions that come in city plantings.

The foliage has five lobes but is only slightly toothed; the upper surface is bright green, with an under surface of very light green. In autumn the leaves turn to beautiful tones of yellow and gold and scarlet. Norway Maples grow quite rapidly, forming a dense, round head; rarely do they require pruning and only then to cut out dead or overhanging branches. The trees we offer are grown in wide rows, which insures well-formed tops and straight trunks.

## AMERICAN BLACK WALNUT.

Another tree which we Americans can claim as our "very own," for it was here when the Pilgrim Fathers landed on the New England coast.

Professor Bailey, formerly of Cornell University, says that the Black Walnut is "one of the noblest trees of the American forest." It would be futile to enlarge on such a description, yet we may add that it is valuable for park and landscape plantings, and for open spaces where it has room to develop.

The wood is very hard, yet it can be easily worked and given a brilliant polish. Great quantities of the wood are being used for rifle stocks, and the demand will unquestionably result in a shortage of material for all purposes. Therefore, a planting of Walnut trees must eventually be a profitable investment. The nuts also have a commercial value.

## ENGLISH ELM

It is very easy to become over-enthusiastic about these trees, yet they merit all the good things that can be said about them.

English Elms will grow in almost any part of the United States, and are just as adaptable to climatic conditions as the native species. Another point is that the foliage remains green several weeks longer than that of the American Elm.

English Elms make splendid street and lawn trees. The spreading branches form a round, open head, which in avenue planting may eventually form a magnificent arch of green. The trees frequently reach 80 to 100 feet in height.

In our nursery we have splendid specimens which are offered this season at special prices.

# Pruning That Gets Results

## APPLE

In forming the head of the tree, no branches closer than one foot from the ground should be allowed to grow. The following winter they should be trimmed back at least one-half and thinned out so as to leave not more than four branches to form the framework. These should be distributed evenly so as not to crowd one another as the tree develops. The second winter not more than two laterals should remain and if there is a tendency to crowd, not more than one of the framework branches, and their growth should be again shortened very severely. Prune to an outside bud for the first two winters' pruning. With the head now practically formed shape the tree in accordance with its development. The cutting back of trees and judicious thinning prevents the long bare branches so noticeable and enables the tree to carry a larger load of fruit than otherwise.

## PEAR.

The very marked tendency of the pear to form its branches straight up requires a method of pruning which will not only hold the tree in control but promote fruit spurs from the framework branches to the very top of the tree. In midsummer just before the wood begins to harden, from four to five branches well distributed around the tree should be selected and then pieces of wood from three to six inches long and slightly notched to hold them in place should be arranged to push the branchlets away from the body. Then every spring cut back the new growth at least one-half or three-fourths for the first few years. Do not overlook the importance of keeping the main branches away from the center stem. This will give you a nice round headed tree shaped like an apple instead of the usual straight up pear tree. The tree will bear more fruit and carry the load better.

## CHERRY. PLUM. PRUNE.

The tree should be headed back to 24 inches. Three to four branches are allowed to form the head and these should be so distributed as to prevent forks, as the tree has a tendency to split as it grows older. Cut back these branches one-half or more the first winter, and the following season not more than one or two branches should be allowed to grow from those left the first year. Shorten in the new growth about the same each succeeding year. This promotes fruit spurs on the larger as well as smaller branches.

## APRICOTS.

Being a strong, straggly grower, one must prune very carefully at least the first four years. Cut back to 20 inches when planting. Leave four branches the first year to form the head. Cut back at least two-thirds the second year. Following years prune more moderately.

## PEACH.

Cut back to 20 inches when planting. First year cut back one-half or two-thirds of the growth. Following years the four branches which have been left to form the framework should be cut back not more than one-third, but the laterals from the framework branches should be shortened in and spaced about six inches apart. This will give a good, vigorous, well-shaped tree, which will bear heavy crops of fruit.

# Some Helps on Care and Planting of Stock

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## Protect the Roots.

In taking your trees home from delivery point do not expose them to the sun or wind. Many trees are injured more in an hour at this time than in one or two weeks in transit. Cover them well with straw, burlap or canves, and immediately upon reaching home, heel them in, wetting and packing the ground thoroughly. Take only a few at a time out of the ground at planting time. A barrel or tub of water in which to keep the trees in the field while planting insures against needless exposure. A little care at this time will repay you tenfold.

## Preparation of the Soil.

Prepare a rich, deep bed of mellow soil, and have the land sufficiently drained to relieve the roots from standing water. To insure a fine growth, land should be in as good condition as is required for a crop of wheat, corn or potatoes.

## Preparing Trees for Planting.

The preservation of the natural balance between tops and roots renders a vigorous cutting back of top absolutely necessary in most cases. Prune off broken or bruised ends of roots, if any (a smooth-cut root granulates, or makes ready to extend, sooner than one broken off). Cut back the tops to the extent of about one-half the previous year's growth, taking care at all times to prune in such a manner as will tend to develop a well-formed head, sufficiently open to admit air and light freely. One-year-old trees, where there is but one straight stock, should be cut down to the height desired for forming the head.

## Injured Trees.

If trees are received in a frozen state, place the package unopened in a cellar, away from frost and heat, until thawed out, and then unpack. If partially dried from long exposure, bury entirely, or place in water from 12 to 24 hours.

## Planting in Rainy Districts.

Make the holes large enough to admit the roots without any cramping or bending. Fine surface soil should be used in covering the roots, and this should be carefully worked among them. Pour in some water when the hole is partially filled. See that the ground is firmly and solidly packed over all parts of the roots, so that there will be no opportunity for dry air or frost to enter and destroy roots deprived of the full benefit of their natural protection. Omission to pack the earth solidly is a more frequent cause of failure in planting nursery stock than any other. Fill the holes full enough to be even with the surrounding surface after the fresh earth settles. Never use manure in contact with roots. Large trees should be staked and tied.

### Planting in Irrigated Districts.

Have the water in the field ditches and as you fill the hole with earth, run in water and let settle, finally filling and packing, and leaving a dry mulch of earth on top. In these arid and semi-arid localities, ground should be kept in very moist condition. Many trees are lost through neglect of this.

### After-Culture.

Grass should not be allowed to grow about young trees or plants. The ground should be cultivated for a space of at least one foot outside the roots. If the ground is poor, it should have surface applications of manure. Pruning should be done regularly every spring, before the buds swell any. Avoid removal of large branches.

### Fall Planting.

In most sections where the thermometer goes below zero, trees delivered to customers in the fall are more or less injured during the freezing weather of winter—lowering their vitality and causing many to die the first summer after planting; so we will not deliver trees in the fall to cold sections, except when the owner is willing to take all risk and pay freight from nursery.

### WINTER MULCHING.

In the fall, and particularly the first after trees or bushes are planted, the ground should be mulched or covered with a layer of coarse manure or litter three to six inches deep, over a space of two feet more in diameter than the extent of the roots. This keeps the earth moist and of even temperature.

### Distances for Planting.

Standard Apples .....	30 ft. each way
Standard Pears and strong-growing Cherries.....	20 ft. each way
Duke and Morello Cherries .....	18 ft. each way
Standard Plums, Pears, Apricots, Nectar- ines .....	16 to 18 ft. each way
Quinces, Dwarf Pears and Apricots.....	10 12 ft. each way
Grapes .....	7 x 10 to 16 x 16 ft. each way
Currants and Gooseberries.....	3 x 5 to 4 x 7
Strawberries in field.....	1 x 3 to 3½ ft. apart
Strawberries in garden.....	1 to 2 ft. apart

### Number of Trees or Plans on an Acre.

	Square Method	Hexagonal or triangle method
1 foot each way.....	10,890	50,300
2 foot each way.....	10,890	12,575
3 foot each way.....	4,840	5,890
4 foot each way.....	2,725	3,145
5 foot each way.....	1,745	2,010
6 foot each way.....	1,200	1,600
8 foot each way.....	680	785
10 foot each way.....	435	505
12 foot each way.....	305	350
16 foot each way.....	170	190
18 foot each way.....	135	155
20 foot each way.....	110	125
25 foot each way.....	70	80
30 foot each way.....	50	55
35 foot each way.....	35	40
40 foot each way.....	27	31

# Extra Hardy Shade Trees and Shrubs

## RECOMMENDED FOR COLD SECTIONS

### SHADE TREES

American White Ash  
Birch, cut-lf. Wpg.  
Box Elder  
Catalpa Speciosa  
Crab, Bechtel's Dbl. Flg.  
American White Elm  
Cork Bark Elm  
American Linden  
Norway Maple  
Sugar Maple  
Soft Maple  
Mountain Ash  
Russian Mulberry  
Canadian Poplar  
Lombardy Poplar  
Silver Poplar  
American Black Walnut  
Golden Willow  
Wisconsin Wpg. Willow

### SHRUBS

Barberry, Purple-lvd.  
Barberry, Thunbergii  
Snowball, Opulus  
Snowball, Common & Japan  
Currant, Flowering  
Elder, Golden  
Upright Honeysuckle  
Hydrangea, Paniculata  
Hydrangea, Arborescens  
Lilacs, Common Purple  
Lilacs, Common White  
Lilacs, Japonica  
Lilacs, Ludwig Spaeth  
Lilacs, M. A. Chatenay  
Lilacs, Pres. Grevy  
Prunus Triloba  
Privet, Amour River North  
Purple Fringe  
Spirea, Golden  
Spirea, Thunbergii  
Spirea, Van Hottel  
Spirea, Wateri  
Syringa, Garland  
Wegelia, Rosea

# Extra Hardy Large and Small Fruits

RECOMMENDED FOR COLD SECTIONS

## APPLES

Bismark  
Duch. Oldenburg  
N. W. Greening  
Tetofsky  
Talman's Sweet  
Wealthy  
Wolf River  
Yel. Transparent  
All Crab Apples

## PLUMS

Peach  
Weaver

## PEARS

Flemish Beauty  
Idaho  
Kieffer

## PEACH

Bokhara  
Crosby

## CHERRIES

Ostheim  
English Morello  
Dukes  
Wragg

## APRICOT

Alexander  
Alexis  
Gibb  
Budd

## QUINCE

Orange

## CURRENTS

Cherry  
North Star  
Black Champion

## GOOSEBERRIES

Houghton  
Pearl  
Joslyn

## GRAPES

Campbell's Early  
Concord  
Niagara  
Pocklington

## RASPBERRIES

Cuthbert  
Herbert  
Marlboro  
Gregg  
Columbian  
Golden Queen

## BLACKBERRIES

Eldorado  
Rathbun  
Mersereau  
Snyder

## DEWBERRY

Lucretia

## ASPARAGUS

Conover's Col.  
Col. Mam. White

## RHUBARB

Victoria

## HORSE RADISH